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# **ANALYTICAL REPORT**

REVISED

PROJECT NO. 100.58.15

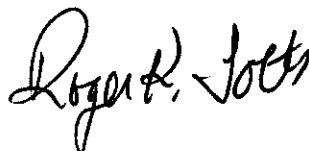
EMD CHEMICALS, INC.

Lot #: A3I100121

Dan Weed

The Payne Firm, Inc.  
11231 Cornell Park Drive  
Cincinnati, OH 45242

SEVERN TRENT LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "Roger K. Toth". The signature is fluid and cursive, with the first name "Roger" and last name "Toth" clearly distinguishable.

Roger K. Toth  
Project Manager

October 7, 2003

## **CASE NARRATIVE**

A3I100121

Revised

The following report contains the analytical results for two water samples and one quality control sample submitted to STL North Canton by The Payne Firm, Inc. from the EMD Chemicals, Inc. Site, project number 100.58.15. The samples were received September 10, 2003, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Dan Weed on September 15, 2003. A summary of QC data for this analysis is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to compliant with laboratory protocol.

### **SUPPLEMENTAL QC INFORMATION**

#### **SAMPLE RECEIVING**

The temperature of the cooler upon sample receipt was 2.4°C.

#### **GC/MS VOLATILES**

The analytical results met the requirements of the laboratory's QA/QC program.

#### **GC/MS SEMIVOLATILES**

The analytical results met the requirements of the laboratory's QA/QC program.

#### **METALS**

The sample(s) had elevated reporting limits due to matrix interferences. Refer to the sample report pages for the affected analyte(s) flagged with "G".

#### **GENERAL CHEMISTRY**

The analytical results met the requirements of the laboratory's QA/QC program.

## QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

### QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

### LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

### METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

#### Volatile (GC or GC/MS)

Methylene chloride

Acetone

2-Butanone

#### Semivolatile (GC/MS)

Phthalate Esters

#### Metals

Copper

Iron

Zinc

Lead\*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*
- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

## QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

### **MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

### **SURROGATE COMPOUNDS**

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, PAH, and Herbicide methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

### **STL North Canton Certifications and Approvals:**

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225), Illinois (#100439), Kansas (#E10336), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CL0024), Pennsylvania (#68-340), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)



Y:\HerrenDNarrative\QCinsSW846.doc, Revised: 07/24/01

## EXECUTIVE SUMMARY - Detection Highlights

A3I100121

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>MW23/090903 09/09/03 13:35 001</b>				
Arsenic - DISSOLVED	0.065	0.010	mg/L	SW846 6010B
Arsenic	0.19	0.010	mg/L	SW846 6010B
Chromium	0.15	0.0050	mg/L	SW846 6010B
Nickel	0.12	0.040	mg/L	SW846 6010B
1,4-Dioxane	370	200	ug/L	SW846 8260B
Chloroethane	8.8	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	9.2	1.0	ug/L	SW846 8260B
Benzene	9.0	1.0	ug/L	SW846 8260B
Total Suspended Solids	1000	8.0	mg/L	MCAWW 160.2
<b>MW-504/090803 09/08/03 10:15 002</b>				
Chromium - DISSOLVED	0.020	0.0050	mg/L	SW846 6010B
Nickel - DISSOLVED	3.5	0.040	mg/L	SW846 6010B
Chromium	73.1	0.010	mg/L	SW846 6010B
Nickel	6.8	0.040	mg/L	SW846 6010B
Total Suspended Solids	170	4.0	mg/L	MCAWW 160.2

## ANALYTICAL METHODS SUMMARY

A3I100121

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Non-Filterable Residue (TSS)	MCAWW 160.2
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

### References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",  
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical  
Methods", Third Edition, November 1986 and its updates.

## SAMPLE SUMMARY

A3I100121

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
FX0GK	001	MW23/090903	09/09/03	13:35
FX0GV	002	MW-504/090803	09/08/03	10:15
FX0G4	003	TB05/090803	09/08/03	

### NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



PAYNE FIRM INC.

Client Sample ID: MW23/090903

GC/MS Volatiles

Lot-Sample #....: A3I100121-001 Work Order #....: FX0GK1AA Matrix.....: WG  
 Date Sampled....: 09/09/03 13:35 Date Received...: 09/10/03  
 Prep Date.....: 09/12/03 Analysis Date...: 09/12/03  
 Prep Batch #....: 3258449  
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
Acetonitrile	ND	20	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Chloroprene	ND	2.0	ug/L
3-Chloropropene	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,4-Dioxane	370	200	ug/L
Ethyl methacrylate	ND	1.0	ug/L
Iodomethane	ND	1.0	ug/L
Isobutanol	ND	50	ug/L
Methacrylonitrile	ND	2.0	ug/L
Methyl methacrylate	ND	2.0	ug/L
Propionitrile	ND	4.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropene	ND	1.0	ug/L
Vinyl acetate	ND	2.0	ug/L
Chloromethane	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	8.8	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	9.2	1.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: MW23/090903

GC/MS Volatiles

Lot-Sample #....: A3I100121-001 Work Order #....: FX0GK1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
<b>Benzene</b>	<b>9.0</b>	<b>1.0</b>	<b>ug/L</b>
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	90	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

PAYNE FIRM INC.

Client Sample ID: MW23/090903

GC/MS Semivolatiles

Lot-Sample #....: A3I100121-001 Work Order #....: FX0GK1AC Matrix.....: WG  
 Date Sampled....: 09/09/03 13:35 Date Received...: 09/10/03  
 Prep Date.....: 09/10/03 Analysis Date...: 09/30/03  
 Prep Batch #....: 3253236  
 Dilution Factor: 1 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl)- ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro- propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl- amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro- benzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopenta- diene	ND	50	ug/L
2,4,6-Trichloro- phenol	ND	10	ug/L
2,4,5-Trichloro- phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

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PAYNE FIRM INC.

Client Sample ID: MW23/090903

GC/MS Semivolatiles

Lot-Sample #....: A3I100121-001 Work Order #....: FX0GK1AC Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro- 2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	10	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L
Acetophenone	ND	10	ug/L
2-Acetylaminofluorene	ND	100	ug/L
4-Aminobiphenyl	ND	50	ug/L
Aniline	ND	10	ug/L
Benzyl alcohol	ND	10	ug/L
p-Chlorobenzilate	ND	10	ug/L

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PAYNE FIRM INC.

Client Sample ID: MW23/090903

GC/MS Semivolatiles

Lot-Sample #....: A3I100121-001 Work Order #....: FX0GK1AC Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diallate	ND	20	ug/L
2,6-Dichlorophenol	ND	10	ug/L
Dimethoate	ND	20	ug/L
p-Dimethylaminoazobenzene	ND	20	ug/L
7,12-Dimethylbenz(a)- anthracene	ND	20	ug/L
3,3'-Dimethylbenzidine	ND	50	ug/L
alpha,alpha-Dimethylphenethyla mine	ND	50	ug/L
1,3-Dinitrobenzene	ND	10	ug/L
Diphenylamine	ND	10	ug/L
Ethyl methanesulfonate	ND	10	ug/L
Hexachloropropene	ND	100	ug/L
Isosafrole	ND	20	ug/L
Methapyrilene	ND	50	ug/L
o-Toluidine	ND	20	ug/L
3-Methylcholanthrene	ND	20	ug/L
Methyl methanesulfonate	ND	10	ug/L
3-Methylphenol	ND	10	ug/L
1,4-Naphthoquinone	ND	50	ug/L
1-Naphthylamine	ND	10	ug/L
2-Naphthylamine	ND	10	ug/L
4-Nitroquinoline- 1-oxide	ND	100	ug/L
N-Nitrosodi-n-butylamine	ND	10	ug/L
N-Nitrosodiethylamine	ND	10	ug/L
N-Nitrosodimethylamine	ND	10	ug/L
N-Nitrosomethylethylamine	ND	10	ug/L
N-Nitrosomorpholine	ND	10	ug/L
N-Nitrosopiperidine	ND	10	ug/L
N-Nitrosopyrrolidine	ND	10	ug/L
5-Nitro-o-toluidine	ND	20	ug/L
Pentachlorobenzene	ND	10	ug/L
Pentachloroethane	ND	50	ug/L
Pentachloronitrobenzene	ND	50	ug/L
Phenacetin	ND	20	ug/L
p-Phenylene diamine	ND	100	ug/L
2-Picoline	ND	20	ug/L
Pronamide	ND	20	ug/L
Pyridine	ND	20	ug/L
Safrole	ND	20	ug/L
1,2,4,5-Tetrachloro- benzene	ND	10	ug/L

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PAYNE FIRM INC.

Client Sample ID: MW23/090903

GC/MS Semivolatiles

Lot-Sample #....: A3I100121-001 Work Order #....: FX0GK1AC Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
2,3,4,6-Tetrachlorophenol	ND	50	ug/L
1,3,5-Trinitrobenzene	ND	50	ug/L
Aramite	ND	10	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	81	(32 - 112)
2-Fluorobiphenyl	58	(30 - 110)
Terphenyl-d14	42	(10 - 144)
Phenol-d5	65	(10 - 113)
2-Fluorophenol	58	(13 - 110)
2,4,6-Tribromophenol	67	(21 - 122)

PAYNE FIRM INC.

Client Sample ID: MW23/090903

TOTAL Metals

Lot-Sample #...: A3I100121-001

Matrix.....: WG

Date Sampled...: 09/09/03 13:35 Date Received...: 09/10/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3254106						
Arsenic	0.19	0.010	mg/L	SW846 6010B	09/11-09/12/03	FX0GK1AG
		Dilution Factor: 1				
Chromium	0.15	0.0050	mg/L	SW846 6010B	09/11-09/12/03	FX0GK1AH
		Dilution Factor: 1				
Nickel	0.12	0.040	mg/L	SW846 6010B	09/11-09/12/03	FX0GK1AJ
		Dilution Factor: 1				

PAYNE FIRM INC.

Client Sample ID: MW23/090903

DISSOLVED Metals

Lot-Sample #...: A3I100121-001

Matrix.....: WG

Date Sampled...: 09/09/03 13:35 Date Received...: 09/10/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3254106						
Arsenic	0.065	0.010	mg/L	SW846 6010B	09/11-09/12/03	FX0GK1AD
		Dilution Factor: 1				
Chromium	ND	0.0050	mg/L	SW846 6010B	09/11-09/12/03	FX0GK1AE
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	09/11-09/12/03	FX0GK1AF
		Dilution Factor: 1				



PAYNE FIRM INC.

Client Sample ID: MW23/090903

General Chemistry

Lot-Sample #....: A3I100121-001    Work Order #....: FX0GK    Matrix.....: WG  
Date Sampled....: 09/09/03 13:35    Date Received...: 09/10/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Suspended Solids	1000	8.0	mg/L	MCAWW 160.2	09/11-09/12/03	3255093

Dilution Factor: 2

PAYNE FIRM INC.

Client Sample ID: MW-504/090803

GC/MS Semivolatiles

Lot-Sample #....: A3I100121-002    Work Order #....: FX0GV1AA    Matrix.....: WG  
 Date Sampled....: 09/08/03 10:15    Date Received...: 09/10/03  
 Prep Date.....: 09/10/03    Analysis Date...: 09/30/03  
 Prep Batch #....: 3253236  
 Dilution Factor: 1    Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl)- ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloro- propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl- amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichloro- benzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopenta- diene	ND	50	ug/L
2,4,6-Trichloro- phenol	ND	10	ug/L
2,4,5-Trichloro- phenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: MW-504/090803

GC/MS Semivolatiles

Lot-Sample #....: A3I100121-002 Work Order #....: FX0GV1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro- 2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	10	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L
Acetophenone	ND	10	ug/L
2-Acetylaminofluorene	ND	100	ug/L
4-Aminobiphenyl	ND	50	ug/L
Aniline	ND	10	ug/L
Benzyl alcohol	ND	10	ug/L
p-Chlorobenzilate	ND	10	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: MW-504/090803

GC/MS Semivolatiles

Lot-Sample #....: A3I100121-002 Work Order #....: FX0GV1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diallate	ND	20	ug/L
2,6-Dichlorophenol	ND	10	ug/L
Dimethoate	ND	20	ug/L
p-Dimethylaminoazobenzene	ND	20	ug/L
7,12-Dimethylbenz(a)- anthracene	ND	20	ug/L
3,3'-Dimethylbenzidine	ND	50	ug/L
alpha,alpha-Dimethylphenethyla mine	ND	50	ug/L
1,3-Dinitrobenzene	ND	10	ug/L
Diphenylamine	ND	10	ug/L
Ethyl methanesulfonate	ND	10	ug/L
Hexachloropropene	ND	100	ug/L
Isosafrole	ND	20	ug/L
Methapyrilene	ND	50	ug/L
o-Toluidine	ND	20	ug/L
3-Methylcholanthrene	ND	20	ug/L
Methyl methanesulfonate	ND	10	ug/L
3-Methylphenol	ND	10	ug/L
1,4-Naphthoquinone	ND	50	ug/L
1-Naphthylamine	ND	10	ug/L
2-Naphthylamine	ND	10	ug/L
4-Nitroquinoline- 1-oxide	ND	100	ug/L
N-Nitrosodi-n-butylamine	ND	10	ug/L
N-Nitrosodiethylamine	ND	10	ug/L
N-Nitrosodimethylamine	ND	10	ug/L
N-Nitrosomethylethylamine	ND	10	ug/L
N-Nitrosomorpholine	ND	10	ug/L
N-Nitrosopiperidine	ND	10	ug/L
N-Nitrosopyrrolidine	ND	10	ug/L
5-Nitro-o-toluidine	ND	20	ug/L
Pentachlorobenzene	ND	10	ug/L
Pentachloroethane	ND	50	ug/L
Pentachloronitrobenzene	ND	50	ug/L
Phenacetin	ND	20	ug/L
p-Phenylene diamine	ND	100	ug/L
2-Picoline	ND	20	ug/L
Pronamide	ND	20	ug/L
Pyridine	ND	20	ug/L
Safrole	ND	20	ug/L
1,2,4,5-Tetrachloro- benzene	ND	10	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: MW-504/090803

GC/MS Semivolatiles

Lot-Sample #....: A3I100121-002 Work Order #....: FX0GV1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
2,3,4,6-Tetrachlorophenol	ND	50	ug/L
1,3,5-Trinitrobenzene	ND	50	ug/L
Aramite	ND	10	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	80	(32 - 112)
2-Fluorobiphenyl	57	(30 - 110)
Terphenyl-d14	66	(10 - 144)
Phenol-d5	68	(10 - 113)
2-Fluorophenol	57	(13 - 110)
2,4,6-Tribromophenol	66	(21 - 122)

PAYNE FIRM INC.

Client Sample ID: MW-504/090803

TOTAL Metals

Lot-Sample #...: A3I100121-002

Matrix.....: WG

Date Sampled...: 09/08/03 10:15 Date Received...: 09/10/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3254106						
Arsenic	ND G	0.020	mg/L	SW846 6010B	09/11-09/12/03	FX0GV1AF
		Dilution Factor: 2				
Chromium	73.1	0.010	mg/L	SW846 6010B	09/11-09/12/03	FX0GV1AG
		Dilution Factor: 2				
Nickel	6.8	0.040	mg/L	SW846 6010B	09/11-09/12/03	FX0GV1AH
		Dilution Factor: 1				

NOTE(S):

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

PAYNE FIRM INC.

Client Sample ID: MW-504/090803

DISSOLVED Metals

Lot-Sample #....: A3I100121-002

Matrix.....: WG

Date Sampled....: 09/08/03 10:15 Date Received...: 09/10/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 3254106						
Arsenic	ND	0.010	mg/L	SW846 6010B	09/11-09/12/03	FX0GV1AC
		Dilution Factor: 1				
Chromium	0.020	0.0050	mg/L	SW846 6010B	09/11-09/12/03	FX0GV1AD
		Dilution Factor: 1				
Nickel	3.5	0.040	mg/L	SW846 6010B	09/11-09/12/03	FX0GV1AE
		Dilution Factor: 1				

PAYNE FIRM INC.

Client Sample ID: MW-504/090803

General Chemistry

Lot-Sample #....: A3I100121-002    Work Order #....: FX0GV    Matrix.....: WG  
Date Sampled....: 09/08/03 10:15    Date Received...: 09/10/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Suspended Solids	170	4.0	mg/L	MCAWW 160.2	09/11-09/12/03	3255093

Dilution Factor: 1



PAYNE FIRM INC.

Client Sample ID: TB05/090803

GC/MS Volatiles

Lot-Sample #....: A3I100121-003    Work Order #....: FX0G41AA    Matrix.....: WQ  
 Date Sampled....: 09/08/03    Date Received...: 09/10/03  
 Prep Date.....: 09/12/03    Analysis Date...: 09/12/03  
 Prep Batch #....: 3258449  
 Dilution Factor: 1    Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
Acetonitrile	ND	20	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Chloroprene	ND	2.0	ug/L
3-Chloropropene	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,4-Dioxane	ND	200	ug/L
Ethyl methacrylate	ND	1.0	ug/L
Iodomethane	ND	1.0	ug/L
Isobutanol	ND	50	ug/L
Methacrylonitrile	ND	2.0	ug/L
Methyl methacrylate	ND	2.0	ug/L
Propionitrile	ND	4.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
Vinyl acetate	ND	2.0	ug/L
Chloromethane	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: TB05/090803

GC/MS Volatiles

Lot-Sample #....: A3I100121-003 Work Order #....: FX0G41AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	113	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

## **QUALITY CONTROL SECTION**

# METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #...: A3I100121  
MB Lot-Sample #: A3I150000-449

Work Order #...: F0C9G1AA

Matrix.....: WATER

Analysis Date...: 09/12/03

Prep Date.....: 09/12/03

Prep Batch #...: 3258449

Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Acetonitrile	ND	20	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Chloroprene	ND	2.0	ug/L	SW846 8260B
3-Chloropropene	ND	2.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	SW846 8260B
Dichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,4-Dioxane	ND	200	ug/L	SW846 8260B
Ethyl methacrylate	ND	1.0	ug/L	SW846 8260B
Iodomethane	ND	1.0	ug/L	SW846 8260B
Isobutanol	ND	50	ug/L	SW846 8260B
Methacrylonitrile	ND	2.0	ug/L	SW846 8260B
Methyl methacrylate	ND	2.0	ug/L	SW846 8260B
Propionitrile	ND	4.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	2.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B

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# METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #....: A3I100121

Work Order #....: F0C9G1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	108	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	89	(76 - 110)
4-Bromofluorobenzene	80	(74 - 116)

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

# METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #....: A3I100121  
MB Lot-Sample #: A3I100000-236

Work Order #....: FX0HD1AA

Matrix.....: WATER

Analysis Date...: 09/30/03  
Dilution Factor: 1

Prep Date.....: 09/10/03

Prep Batch #....: 3253236

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)- ether	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
2,2'-oxybis(1-Chloro- propane)	ND	10	ug/L	SW846 8270C
4-Methylphenol	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propyl- amine	ND	10	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
1,2,4-Trichloro- benzene	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopenta- diene	ND	50	ug/L	SW846 8270C
2,4,6-Trichloro- phenol	ND	10	ug/L	SW846 8270C
2,4,5-Trichloro- phenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
Acenaphthene	ND	10	ug/L	SW846 8270C

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## METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #....: A3I100121

Work Order #....: FX0HD1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
4,6-Dinitro- 2-methylphenol	ND	50	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	10	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
2-Acetylaminofluorene	ND	100	ug/L	SW846 8270C
4-Aminobiphenyl	ND	50	ug/L	SW846 8270C
Aniline	ND	10	ug/L	SW846 8270C
Benzyl alcohol	ND	10	ug/L	SW846 8270C
p-Chlorobenzilate	ND	10	ug/L	SW846 8270C
Diallate	ND	20	ug/L	SW846 8270C
2,6-Dichlorophenol	ND	10	ug/L	SW846 8270C
Dimethoate	ND	20	ug/L	SW846 8270C
p-Dimethylaminoazobenzene	ND	20	ug/L	SW846 8270C

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# METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #....: A3I100121

Work Order #....: FX0HD1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
7,12-Dimethylbenz(a) - anthracene	ND	20	ug/L	SW846 8270C
3,3'-Dimethylbenzidine	ND	50	ug/L	SW846 8270C
alpha,alpha-Dimethylphenene	ND	50	ug/L	SW846 8270C
1,3-Dinitrobenzene	ND	10	ug/L	SW846 8270C
Diphenylamine	ND	10	ug/L	SW846 8270C
Ethyl methanesulfonate	ND	10	ug/L	SW846 8270C
Hexachloropropene	ND	100	ug/L	SW846 8270C
Isosafrole	ND	20	ug/L	SW846 8270C
Methapyrilene	ND	50	ug/L	SW846 8270C
o-Toluidine	ND	20	ug/L	SW846 8270C
3-Methylcholanthrene	ND	20	ug/L	SW846 8270C
Methyl methanesulfonate	ND	10	ug/L	SW846 8270C
3-Methylphenol	ND	10	ug/L	SW846 8270C
1,4-Naphthoquinone	ND	50	ug/L	SW846 8270C
1-Naphthylamine	ND	10	ug/L	SW846 8270C
2-Naphthylamine	ND	10	ug/L	SW846 8270C
4-Nitroquinoline-1-oxide	ND	100	ug/L	SW846 8270C
N-Nitrosodi-n-butylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodimethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosomethylethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosomorpholine	ND	10	ug/L	SW846 8270C
N-Nitrosopiperidine	ND	10	ug/L	SW846 8270C
N-Nitrosopyrrolidine	ND	10	ug/L	SW846 8270C
5-Nitro-o-toluidine	ND	20	ug/L	SW846 8270C
Pentachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachloroethane	ND	50	ug/L	SW846 8270C
Pentachloronitrobenzene	ND	50	ug/L	SW846 8270C
Phenacetin	ND	20	ug/L	SW846 8270C
p-Phenylene diamine	ND	100	ug/L	SW846 8270C
2-Picoline	ND	20	ug/L	SW846 8270C
Pronamide	ND	20	ug/L	SW846 8270C
Pyridine	ND	20	ug/L	SW846 8270C
Safrole	ND	20	ug/L	SW846 8270C
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	SW846 8270C
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	SW846 8270C
1,3,5-Trinitrobenzene	ND	50	ug/L	SW846 8270C
Aramite	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	75	(32 - 112)

(Continued on next page)



METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: A3I100121

Work Order #....: FX0HD1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
2-Fluorobiphenyl	54	(30 - 110)		
Terphenyl-d14	67	(10 - 144)		
Phenol-d5	59	(10 - 113)		
2-Fluorophenol	56	(13 - 110)		
2,4,6-Tribromophenol	49	(21 - 122)		

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

# METHOD BLANK REPORT

## TOTAL Metals

Client Lot #...: A3I100121

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>MB Lot-Sample #: A3I110000-106 Prep Batch #...: 3254106</b>						
Arsenic	ND	0.010	mg/L	SW846 6010B	09/11-09/12/03	FX3FU1AN
		Dilution Factor: 1				
Chromium	ND	0.0050	mg/L	SW846 6010B	09/11-09/12/03	FX3FU1AP
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	09/11-09/12/03	FX3FU1AQ
		Dilution Factor: 1				

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

# METHOD BLANK REPORT

## DISSOLVED Metals

Client Lot #....: A3I100121

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A3I110000-106 Prep Batch #....: 3254106						
Arsenic	ND	0.010	mg/L	SW846 6010B	09/11-09/12/03	FX3FJ1AK
		Dilution Factor: 1				
Chromium	ND	0.0050	mg/L	SW846 6010B	09/11-09/12/03	FX3FJ1AL
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	09/11-09/12/03	FX3FJ1AM
		Dilution Factor: 1				

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

# METHOD BLANK REPORT

## General Chemistry

Client Lot #...: A3I100121

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	09/11-09/12/03	3255093
		Dilution Factor: 1				

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #....: A3I100121      Work Order #....: F0C9G1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A3I150000-449      F0C9G1AD-LCSD  
 Prep Date.....: 09/12/03      Analysis Date...: 09/12/03  
 Prep Batch #....: 3258449  
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	99	(63 - 130)			SW846 8260B
	96	(63 - 130)	2.7	(0-20)	SW846 8260B
Trichloroethene	103	(75 - 122)			SW846 8260B
	101	(75 - 122)	1.4	(0-20)	SW846 8260B
Benzene	97	(80 - 116)			SW846 8260B
	98	(80 - 116)	0.84	(0-20)	SW846 8260B
Toluene	96	(74 - 119)			SW846 8260B
	95	(74 - 119)	0.72	(0-20)	SW846 8260B
Chlorobenzene	97	(76 - 117)			SW846 8260B
	98	(76 - 117)	0.97	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(73 - 122)
	104	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
	88	(61 - 128)
Toluene-d8	94	(76 - 110)
	93	(76 - 110)
4-Bromofluorobenzene	99	(74 - 116)
	97	(74 - 116)

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #....: A3I100121      Work Order #....: FX0HD1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A3I100000-236      FX0HD1AD-LCSD  
 Prep Date.....: 09/10/03      Analysis Date...: 09/12/03  
 Prep Batch #....: 3253236  
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	62	(10 - 131)			SW846 8270C
	61	(10 - 131)	1.1	(0-43)	SW846 8270C
2-Chlorophenol	63	(19 - 124)			SW846 8270C
	63	(19 - 124)	0.35	(0-43)	SW846 8270C
1,4-Dichlorobenzene	59	(28 - 110)			SW846 8270C
	58	(28 - 110)	2.0	(0-36)	SW846 8270C
N-Nitrosodi-n-propyl- amine	77	(30 - 115)			SW846 8270C
	76	(30 - 115)	1.2	(0-36)	SW846 8270C
1,2,4-Trichloro- benzene	47	(31 - 110)			SW846 8270C
	49	(31 - 110)	2.6	(0-37)	SW846 8270C
4-Chloro-3-methylphenol	64	(29 - 124)			SW846 8270C
	65	(29 - 124)	1.0	(0-55)	SW846 8270C
Acenaphthene	66	(39 - 118)			SW846 8270C
	67	(39 - 118)	0.80	(0-35)	SW846 8270C
4-Nitrophenol	83	(19 - 144)			SW846 8270C
	82	(19 - 144)	1.7	(0-34)	SW846 8270C
2,4-Dinitrotoluene	77	(47 - 131)			SW846 8270C
	79	(47 - 131)	1.6	(0-32)	SW846 8270C
Pentachlorophenol	76	(10 - 140)			SW846 8270C
	73	(10 - 140)	3.4	(0-56)	SW846 8270C
Pyrene	65	(46 - 130)			SW846 8270C
	65	(46 - 130)	0.92	(0-31)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	72	(32 - 112)
	71	(32 - 112)
2-Fluorobiphenyl	60	(30 - 110)
	60	(30 - 110)
Terphenyl-d14	66	(10 - 144)
	64	(10 - 144)
Phenol-d5	68	(10 - 113)
	67	(10 - 113)
2-Fluorophenol	71	(13 - 110)
	70	(13 - 110)
2,4,6-Tribromophenol	76	(21 - 122)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A3I100121      Work Order #...: FX0HD1AC-LCS      Matrix.....: WATER  
LCS Lot-Sample#: A3I100000-236      FX0HD1AD-LCSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
	76	(21 - 122)

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: A3I100121

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: A3I110000-106 Prep Batch #....: 3254106					
Arsenic	98	(80 - 120)	SW846 6010B	09/11-09/12/03	FX3FJ1A2
		Dilution Factor: 1			
Chromium	101	(80 - 120)	SW846 6010B	09/11-09/12/03	FX3FJ1A3
		Dilution Factor: 1			
Nickel	99	(80 - 120)	SW846 6010B	09/11-09/12/03	FX3FJ1A4
		Dilution Factor: 1			

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.



# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## DISSOLVED Metals

Client Lot #....: A3I100121

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A3I110000-106 Prep Batch #....: 3254106					
Arsenic	98	(80 - 120)	SW846 6010B	09/11-09/12/03	FX3FJ1AX
		Dilution Factor: 1			
Chromium	101	(80 - 120)	SW846 6010B	09/11-09/12/03	FX3FJ1A0
		Dilution Factor: 1			
Nickel	99	(80 - 120)	SW846 6010B	09/11-09/12/03	FX3FJ1A1
		Dilution Factor: 1			

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Client Lot #....: A3I100121

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Suspended Solids	84	(66 - 119)	MCAWW 160.2	09/11-09/12/03	3255093
		Dilution Factor: 1			

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

# MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #....: A3I100121      Work Order #....: FXQ5C1AC-MS      Matrix.....: WATER  
 MS Lot-Sample #: A3I060165-001      FXQ5C1AD-MSD  
 Date Sampled....: 09/05/03 11:05      Date Received...: 09/06/03  
 Prep Date.....: 09/12/03      Analysis Date...: 09/12/03  
 Prep Batch #....: 3258449  
 Dilution Factor: 2.5

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	106	(62 - 130)			SW846 8260B
	108	(62 - 130)	2.2	(0-20)	SW846 8260B
Trichloroethene	108	(62 - 130)			SW846 8260B
	97	(62 - 130)	6.0	(0-20)	SW846 8260B
Benzene	101	(78 - 118)			SW846 8260B
	107	(78 - 118)	5.2	(0-20)	SW846 8260B
Toluene	95	(70 - 119)			SW846 8260B
	96	(70 - 119)	1.3	(0-20)	SW846 8260B
Chlorobenzene	97	(76 - 117)			SW846 8260B
	100	(76 - 117)	3.2	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(73 - 122)
	113	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
	102	(61 - 128)
Toluene-d8	94	(76 - 110)
	94	(76 - 110)
4-Bromofluorobenzene	99	(74 - 116)
	97	(74 - 116)

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# MATRIX SPIKE SAMPLE EVALUATION REPORT

## DISSOLVED Metals

Client Lot #...: A3I100121

Matrix.....: WATER

Date Sampled...: 09/10/03 12:45 Date Received...: 09/10/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A3I100289-002 Prep Batch #...: 3254106						
Arsenic	84	(75 - 125)		SW846 6010B	09/11-09/12/03	FX17H1AR
	83	(75 - 125)	1.1 (0-20)	SW846 6010B	09/11-09/12/03	FX17H1AT
		Dilution Factor: 1				
Chromium	85	(75 - 125)		SW846 6010B	09/11-09/12/03	FX17H1AV
	85	(75 - 125)	0.72 (0-20)	SW846 6010B	09/11-09/12/03	FX17H1AW
		Dilution Factor: 1				
Nickel	84	(75 - 125)		SW846 6010B	09/11-09/12/03	FX17H1A0
	83	(75 - 125)	0.99 (0-20)	SW846 6010B	09/11-09/12/03	FX17H1A1
		Dilution Factor: 1				

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

## General Chemistry

Matrix.....: WATER

**Date Sampled...:** 09/10/03 12:35    **Date Received...:** 09/11/03

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# Chain of Custody Record

SEVERN  
TRENT  
SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client <b>The Payne Firm</b>		Project Manager <b>Dan Weed</b>		Date <b>9/9/03</b>	Chain of Custody Number <b>162873</b>	
Address <b>11231 Cornell Park Dr.</b>		Telephone Number (Area Code)/Fax Number		Lab Number	Page <b>1</b> of <b>1</b>	
City <b>Cynth.</b>	State <b>OH</b>	Zip Code <b>43242</b>	Site Contact <b>C. Luvier</b>	Lab Contact <b>R. TOTH</b>	Analysis (Attach list if more space is needed)	
Project Name and Location (State) <b>EMD Chemicals, Inc.</b>			Carrier/Waybill Number		Special Instructions/ Conditions of Receipt	
Contract/Purchase Order/Quote No. <b>100,58,15</b>						
Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix	Containers & Preservatives	Analysis (Attach list if more space is needed)	
<b>MW 23 / 090903</b>	<b>9/9</b>	<b>1335</b>	<input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Sed. <input type="checkbox"/> Soil	<input type="checkbox"/> Unpres. <input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> HCl <input type="checkbox"/> NaOH <input type="checkbox"/> ZnAc/NaOH	<b>metals include: As, Cr, Ni</b>	
<b>MW-504 / 090803</b>	<b>9/8/03</b>	<b>1015</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>metals to Dan Weed at the Payne Firm</b>	
<b>TR 05 / 090803</b>	<b>9/8/03</b>	<b>—</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>C. Fee 9/9/03</b>						
<b>Disposal By Lab</b>						
<b>OC Requirement (Specify)</b>						
<b>Months</b>						
<b>(A fee may be assessed if samples are retained longer than 1 month)</b>						
Possible Hazard Identification						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Return To Client						
Turn Around Time Required						
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 2 Days <input type="checkbox"/> 4 Days <input type="checkbox"/> 21 Days <input checked="" type="checkbox"/> Other <b>by 9/15</b>						
1. Relinquished By		Date	Time	1. Received By		Date
<b>[Signature]</b>		<b>9/9/03</b>	<b>1430</b>	<b>[Signature]</b>		<b>9/9/03</b>
2. Relinquished By		Date	Time	2. Received By		Date
<b>[Signature]</b>		<b>9/10/03</b>	<b>9:55</b>	<b>[Signature]</b>		<b>9/10/03</b>
3. Relinquished By		Date	Time	3. Received By		Date
Comments						

DISTRIBUTION: WHITE - Returned to Client with Report. CANARY - Stays with the Sample. PINK - Field Copy

# STL Cooler Receipt Form/Narrative North Canton Facility

Lot Number: A3I100121

Client: Payne Firm  
Cooler Received on: 9-10-03

Project: EMD Chemicals  
Opened on: 9-10-03

Quote#: \_\_\_\_\_  
by: [Signature]  
(Signature)

Fedx ☐ Client Drop Off ☐ UPS ☐ Airborne ☒ Other: \_\_\_\_\_  
Cooler ☒ Safe ☐ Foam Box ☐ Client Cooler ☐

STL Shipper No#: FO9

1. Were custody seals on the outside of the cooler? Yes ☒ No ☐

If YES, Quantity 1 Location Over lid

Were the custody seals signed and dated?

Intact? Yes ☒ No ☐ NA ☐

Yes ☒ No ☐ NA ☐

2. Shipper's packing slip attached to this form?

Yes ☒ No ☐

3. Were custody papers included inside the cooler and relinquished?

Yes ☒ No ☐

4. Did you sign the custody papers in the appropriate place?

Yes ☒ No ☐

5. Packing material used:

Peanuts ☐ Bubble Wrap ☒ Vermiculite ☐ Foam ☐ None ☐ Other: \_\_\_\_\_

6. Cooler temperature upon receipt 2.4 °C (see back of form for multiple coolers/temp)

METHOD: Temp Vial ☐ Coolant & Sample ☐ Against Bottles ☐ IR ☒ ICE/H<sub>2</sub>O Slurry ☐

COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

7. Did all bottles arrive in good condition (Unbroken)?

Yes ☒ No ☐

8. Did all bottle labels and tags agree with the custody papers?

Yes ☒ No ☐

9. Were samples at the correct pH? (record on back)

Yes ☒ No ☐ NA ☐

10. Were correct bottles used for the tests indicated?

Yes ☒ No ☐

11. Were air bubbles >6 mm in any VOA vials?

Yes ☐ No ☒ NA ☐

12. Was a sufficient amount of sample sent in each bottle?

Yes ☒ No ☐

Contacted PM \_\_\_\_\_ Date: \_\_\_\_\_ by: \_\_\_\_\_ via Voice Mail ☐ Verbal ☐ Other ☐

Concerning: \_\_\_\_\_

☒ MACRO ☐ MACRO

## 1. CHAIN OF CUSTODY

SR1A The chain of custody and sample bottles did not agree. The following discrepancies occurred \_\_\_\_\_

## 2. SAMPLE CONDITION

SR2A Sample(s) \_\_\_\_\_ were received or requested after the recommended holding time had expired.

SR2B Sample(s) \_\_\_\_\_ were received with insufficient volume.

SR2C Sample(s) \_\_\_\_\_ were received in a broken container.

## 3. SAMPLE PRESERVATION

SR3A Sample(s) \_\_\_\_\_ were further preserved in sample receiving to meet recommended pH level(s).

Nitric Acid Lot # 061603-HNO<sub>3</sub>; Sulfuric Acid Lot # 112801-H<sub>2</sub>SO<sub>4</sub>; Sodium Hydroxide Lot # 011102-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH<sub>3</sub>COO<sub>2</sub>ZN/NaOH

SR3B Sample(s) \_\_\_\_\_ were received with bubble > 6 mm in diameter (cc: PM)

## 4. Other (see below or back)

**STL Cooler Receipt Form/Narrative  
North Canton Facility**

[illegible]

### Discrepancies Cont.

**Macro Name:**

**Macro Name:**

<b>Macro Name:</b>
--------------------

**Other Anomalies:**



***END OF REPORT***